

# 'DOCK/ CHEMICALS

SEMICONDUCTORS DECISION



Liquid, safe and efficient P-precursor  
for MOVPE

'MO-III/V

BP: 54 °C/129 °F/1013 hPa

'TBP-TERTIARYBUTYLPHOSPHINE

PRODUCT DATASHEET

# 'TBP-TERTIARYBUTYLPHOSPHINE

## IDENTIFICATION

<b>CAS-No:</b>	2501-94-2
<b>EINECS/ELINCS-No:</b>	02-04-1518-00
<b>Other name:</b>	2-Methylpropylphosphine

'MO-III/V

## PHYSICAL PROPERTIES

<b>Vapor pressure equat.:</b>	$\lg p(\text{Torr}) = 7.552 - 1529/T(\text{K})$
<b>Density:</b>	0.72 g/cm <sup>3</sup>
<b>Molweight:</b>	89.97 g/mol
<b>Melting point:</b>	4 °C/39 °F
<b>Boiling point:</b>	54 °C/129 °F/1013 hPa

## CHEMICAL PROPERTIES

<b>Stability:</b>	Stable under inert gas
<b>State of matter:</b>	Liquid

## SAFETY & TRANSPORT

<b>Toxicity:</b>	Toxic by inhalation
<b>Explosion limit Vol%:</b>	Pyrophoric
<b>Auto ignition temp. °C:</b>	Pyrophoric
ADR/RID	
<b>ADR/RID-class:</b>	4.2
<b>UN-no:</b>	3392
IMDG	
<b>IMDG/-class:</b>	4.2
<b>UN-no:</b>	3392
ICAO/IATA	
<b>ICAO/IATA-class:</b>	4.2
<b>UN-no:</b>	3392 – AIR FREIGHT FORBIDDEN

For further details please refer to Safety Data Sheet (SDS)

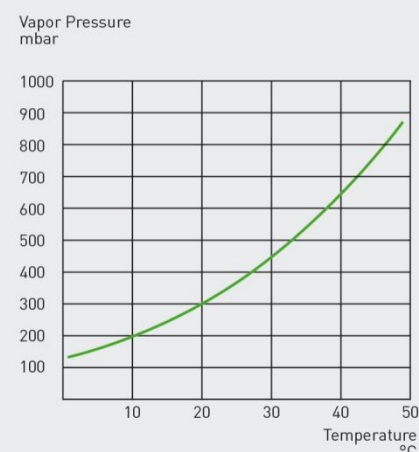
## PACKAGING & STANDARD FILLING VOLUMES

<b>TBP.225.DOCK/100.400</b>	225g / 400ccm cyl.
<b>TBP.700.DOCK/100.1300</b>	700g / 1300ccm cyl.
<b>TBP.2000.DOCK/100.3150</b>	2000g / 3150ccm cyl.
<b>TBP.2000.DOCK/100.3200</b>	2000g / 3200ccm cyl.
<b>TBP.5000.DOCK/100.8000</b>	5000g / 8000ccm cyl.

## QUALITY STANDARDS

**EG Electronic Grade**  
**EPIGRADE™:**  
Batchwise epi-testing

## VAPOR PRESSURE CURVE



## APPLICATION

III/V MOCVD  
GaAs, InP-based material system  
Si-semiconductors, III/V on Si

**'DOCK/  
CHEMICALS**

SEMICONDUCTORS DECISION

## Dockweiler Chemicals GmbH

Emil-von-Behring-Strasse 76 35041 Marburg Germany  
T +49 6421 396 -380 | F +49 6421 396 -381  
sales@dockchemicals.com

**PRODUCT DATASHEET**

www.dockchemicals.com